10th Class 2018

Physics	Group-I	Paper-II
Time: 15 Minutes	(Objective Type)	Max. Marks: 12

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1- The relation between v, f and λ of a wave is:

(a) $vf = \lambda$ (b) $f\lambda = v$ √

(c) $v = \dfrac{\lambda}{f}$ (d) $v\lambda = f$

2- Which is an example of a longitudinal wave:

(a) Sound wave √   (b) Light wave

(c) Radio wave   (d) Water wave

3- Index of refraction of diamond is:

(a) 1.52   (b) 1.66

(c) 2.21   (d) 2.42 √

4- Speed of light in water is:

(a) 3×10^8 ms^{-1} (b) 2.3×10^8 ms^{-1} √

(c) 2×10^8 ms^{-1} (d) 1×10^8 ms^{-1}

5- S.I unit of charge is:

(a) Kg   (b) Newton

(c) Volt   (d) Coulomb √

6- One volt is equal to:

(a) 1 JC   (b) 1 JC^{-1} √

(c) 1 J/C^2 (d) 1 NC^{-1}

7- When we double the voltage in a simple electric circuit, we double the:

(a) Current √   (b) Power

(c) Resistance   (d) Both a & b √

8- **Mathematical form of Ohm's Law is:**
(a) P = IV
(b) V = IR ✓
(c) Q = It
(d) W = Q / V

9- **A device which converts electrical energy into mechanical energy is called:**
(a) D.C. motor ✓
(b) Generator
(c) Transformer
(d) All of these

10- **The process by which electrons are emitted by a hot metal surface is known as:**
(a) Boiling
(b) Evaporation
(c) Conduction
(d) Thermionic emission ✓

11- **What does the term e-mail stand for:**
(a) Emergency mail
(b) Electronic mail ✓
(c) Extra mail
(d) External mail

12- **One isotope of uranium is $^{238}_{92}U$. The number of neutrons in this isotope is:**
(a) 92
(b) 238
(c) 146 ✓
(d) 330